

Weather Generator Station database

Posted by Mallo - 2008/10/20 19:53

The wgnfiles.dbf file does not list my weather stations for the project area. I'm looking for Bondurant and Merna, Wyoming stations. Additionally, can I use the dsgnstrm.dbf file for my area, or will I need to find a database file specific to my weather stations?

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Re:Weather Generator Station database

Posted by isburns - 2008/11/04 21:16

If the stations aren't in the file we don't have the data for them. You can either select the nearest gage using the wgn_us83 shapefile instead of the wgnfiles.dbf or create a record for the missing stations and create the WGN file yourself. Information on the formatting and content of the WGN file can be found in the SWAT user manual available at the SWAT website <http://www.brc.tamus.edu/swat/doc.html>. I believe the SWAT input preprocessor at http://www.brc.tamus.edu/swat/soft_links.html will help in the task, but you'll still need monthly data for each of the measurements in the WGN file.

Use of the dsgnstrm.dbf is independent of the weather generator stations. The design storms represent single events and are used with KINEROS whereas the weather generator stations are used on a long-term basis with SWAT. However, if you're asking about whether the precip inputs for SWAT are specific to the weather station you use, the answer is no. You can have a rain gage located in a completely different spot than the weather station. If no data or missing data, represented as -99, appears in the unweighted precip file associated with your rain gage, however, then SWAT would use the data from the weather station to fill in the blanks.

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Does that help

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